

=> d his nofile

(FILE 'HOME' ENTERED AT 09:36:24 ON 14 FEB 2007)

FILE 'HCAPLUS' ENTERED AT 09:36:33 ON 14 FEB 2007  
ACT RAM975A/A

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L1	(	1554) SEA ABB=ON	PLU=ON	"MUSCARINIC AGONISTS"+PFT,NT/CT
L2	(	2126) SEA ABB=ON	PLU=ON	"MUSCARINIC ANTAGONISTS"+PFT,NT/CT
L3	(	14839) SEA ABB=ON	PLU=ON	"MUSCARINIC RECEPTORS"+PFT,NT,OLD,NEW/C
			T	
L4	(	7547) SEA ABB=ON	PLU=ON	NEUROPATHIC PAIN? OR HYPERALGESIA? OR ALLODYNIA?
L5	(	46) SEA ABB=ON	PLU=ON	(L1 OR L2 OR L3) AND L4
L6	(	2838) SEA ABB=ON	PLU=ON	(M1 OR M(W)1 OR M4 OR M(W)4) (A) RECEPTOR ?
L7	(	12) SEA ABB=ON	PLU=ON	L6 AND L5
L8	(	2651) SEA ABB=ON	PLU=ON	(L1 OR L2 OR L3) AND L6
L9	(	117590) SEA ABB=ON	PLU=ON	M1 OR M(W)1 OR M4 OR M(W)4
L10	(	46) SEA ABB=ON	PLU=ON	L4 AND L9
L11	(	12) SEA ABB=ON	PLU=ON	L8 AND L4
L12	(	33) SEA ABB=ON	PLU=ON	L10 AND THU/RL
L13	(	17) SEA ABB=ON	PLU=ON	L12 AND (M1 OR M4)
L14	(	21) SEA ABB=ON	PLU=ON	L7 OR L11 OR L13
L15	(	63) SEA ABB=ON	PLU=ON	L4 AND MUSCARINIC?
L16	(	16) SEA ABB=ON	PLU=ON	L15 AND (M1 OR M4)
L17	(	22 SEA ABB=ON	PLU=ON	L14 OR L16

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FILE 'MEDLINE' ENTERED AT 09:37:08 ON 14 FEB 2007  
ACT RAM975B/A

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L18	(	1615) SEA ABB=ON	PLU=ON	(M1 OR M(W)1 OR M4 OR M(W)4) (A) RECEPTOR ?
L19	(	4553) SEA ABB=ON	PLU=ON	DAVIS, R?/AU
L20	(	27) SEA ABB=ON	PLU=ON	VANOVER, K?/AU
L21	(	4987) SEA ABB=ON	PLU=ON	RODRIGUEZ, M?/AU
L22	(	5 SEA ABB=ON	PLU=ON	(L19 OR L20 OR L21) AND L18

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ACT RAM975C/A

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L23	(	13568) SEA ABB=ON	PLU=ON	"MUSCARINIC AGONISTS"+PFT,NT/CT
L24	(	708) SEA ABB=ON	PLU=ON	("MUSCARINIC RECEPTORS M1"/CT OR "MUSCARINIC RECEPTORS M4"/CT)
L25	(	9148) SEA ABB=ON	PLU=ON	NEUROPATHIC PAIN? OR HYPERALGESIA? OR ALLODYNIA?
L26	(	10) SEA ABB=ON	PLU=ON	L25 AND ((L23 OR L24))
L27	(	1615) SEA ABB=ON	PLU=ON	(M1 OR M(W)1 OR M4 OR M(W)4) (A) RECEPTOR ?
L28	(	3) SEA ABB=ON	PLU=ON	L26 AND L27
L29	(	4553) SEA ABB=ON	PLU=ON	DAVIS, R?/AU
L30	(	27) SEA ABB=ON	PLU=ON	VANOVER, K?/AU
L31	(	4987) SEA ABB=ON	PLU=ON	RODRIGUEZ, M?/AU
L32	(	5) SEA ABB=ON	PLU=ON	(L29 OR L30 OR L31) AND L27
L33	(	10) SEA ABB=ON	PLU=ON	L26 OR L28
L34	(	10 SEA ABB=ON	PLU=ON	L33 NOT L32

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10/809,975

FILE 'EMBASE' ENTERED AT 09:37:49 ON 14 FEB 2007  
ACT RAM975D/A

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L35 ( 14623) SEA ABB=ON PLU=ON "MUSCARINIC M1 RECEPTOR"+ALL/CT  
L36 ( 14623) SEA ABB=ON PLU=ON "MUSCARINIC M4 RECEPTOR"+ALL/CT  
L37 ( 11850) SEA ABB=ON PLU=ON NEUROPATHIC PAIN? OR HYPERALGESIA? OR  
ALLODYNIA?  
L38 ( 37) SEA ABB=ON PLU=ON (L35 OR L36) AND L37  
L39 10 SEA ABB=ON PLU=ON L38 AND (M1 OR M4)

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ACT RAM975E/A

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L40 ( 14623) SEA ABB=ON PLU=ON "MUSCARINIC M1 RECEPTOR"+ALL/CT  
L41 ( 14623) SEA ABB=ON PLU=ON "MUSCARINIC M4 RECEPTOR"+ALL/CT  
L42 ( 11850) SEA ABB=ON PLU=ON NEUROPATHIC PAIN? OR HYPERALGESIA? OR  
ALLODYNIA?  
L43 ( 37) SEA ABB=ON PLU=ON (L40 OR L41) AND L42  
L44 ( 3401) SEA ABB=ON PLU=ON DAVIS, R?/AU  
L45 ( 29) SEA ABB=ON PLU=ON VANOVER, K?/AU  
L46 ( 4027) SEA ABB=ON PLU=ON RODRIGUEZ, M?/AU  
L47 ( 23) SEA ABB=ON PLU=ON (L44 OR L45 OR L46) AND ((L40 OR L41))  
  
L48 ( 0) SEA ABB=ON PLU=ON L47 AND L42  
L49 ( 0) SEA ABB=ON PLU=ON L47 AND L43  
L50 0 SEA ABB=ON PLU=ON L48 OR L49

FILE 'DRUGU' ENTERED AT 09:38:50 ON 14 FEB 2007  
E MUSCARINIC AGONISTS/CT

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L51 3717 SEA ABB=ON PLU=ON MUSCARINIC+ALL/CT  
L52 2946 SEA ABB=ON PLU=ON NEUROPATHIC PAIN? OR HYPERALGESIA? OR  
ALLODYNIA?  
L53 8 SEA ABB=ON PLU=ON L51 AND L52  
L54 356 SEA ABB=ON PLU=ON DAVIS, R?/AU  
L55 26 SEA ABB=ON PLU=ON VANOVER, K?/AU  
L56 465 SEA ABB=ON PLU=ON RODRIGUEZ, M?/AU  
L57 14 SEA ABB=ON PLU=ON (L54 OR L55 OR L56) AND L51  
L58 8 SEA ABB=ON PLU=ON L53 NOT L57  
L59 0 SEA ABB=ON PLU=ON L57 AND L52  
L60 1190 SEA ABB=ON PLU=ON (M1 OR M(W)1 OR M4 OR M(W)4) (2A) RECEPTO  
R?  
L61 6 SEA ABB=ON PLU=ON L52 AND L60  
L62 0 SEA ABB=ON PLU=ON L57 AND L61  
L63 11 SEA ABB=ON PLU=ON L53 OR L61  
L64 6 SEA ABB=ON PLU=ON L63 AND MUSCARINIC RECEPTOR?  
L65 11 SEA ABB=ON PLU=ON L63 OR L64

FILE 'REGISTRY' ENTERED AT 09:45:18 ON 14 FEB 2007

L66 1 SEA ABB=ON PLU=ON 560085-17-8 /RN  
L67 1 SEA ABB=ON PLU=ON 372197-81-4/RN  
L68 1 SEA ABB=ON PLU=ON 560083-42-3/RN

FILE 'HCAPLUS' ENTERED AT 09:46:50 ON 14 FEB 2007

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L69 3 SEA ABB=ON PLU=ON L66  
L70 2 SEA ABB=ON PLU=ON L67  
L71 4 SEA ABB=ON PLU=ON L68  
L72 0 SEA ABB=ON PLU=ON L66/D OR L66/DP  
L73 0 SEA ABB=ON PLU=ON L67/D OR L67/DP  
L74 0 SEA ABB=ON PLU=ON L68/D OR L68/DP  
L75 5 SEA ABB=ON PLU=ON (L69 OR L70 OR L71)

L76 6225 SEA ABB=ON PLU=ON DAVIS, R?/AU  
 L77 32 SEA ABB=ON PLU=ON VANOVER, K?/AU  
 L78 4519 SEA ABB=ON PLU=ON RODRIGUEZ, M?/AU  
 L79 2 SEA ABB=ON PLU=ON (L76 OR L77 OR L78) AND L75  
 L80 3 SEA ABB=ON PLU=ON L75 NOT L79

FILE 'BIOSIS' ENTERED AT 10:00:04 ON 14 FEB 2007

E MUSCARINIC AGONISTS/CT  
 L81 76 SEA ABB=ON PLU=ON "MUSCARINIC AGONISTS"+PFT,NT/CT  
 E MUSCARINIC RECEPTOR/CT  
 L82 1090 SEA ABB=ON PLU=ON "MUSCARINIC RECEPTOR"+PFT,NT/CT  
 L83 10733 SEA ABB=ON PLU=ON NEUROPATHIC PAIN? OR HYPERALGESIA? OR  
 ALLODYNIA?  
 L84 9 SEA ABB=ON PLU=ON (L81 OR L82) AND L83  
 L85 3654 SEA ABB=ON PLU=ON (M1 OR M(W)1 OR M4 OR M(W)4) (2A) RECEPТО  
 R?  
 L86 13 SEA ABB=ON PLU=ON L83 AND L85  
 L87 22 SEA ABB=ON PLU=ON L84 OR L86  
 L88 5743 SEA ABB=ON PLU=ON DAVIS, R?/AU  
 L89 59 SEA ABB=ON PLU=ON VANOVER, K?/AU  
 L90 5583 SEA ABB=ON PLU=ON RODRIGUEZ, M?/AU  
 L91 16 SEA ABB=ON PLU=ON (L88 OR L89 OR L90) AND L85  
 L92 0 SEA ABB=ON PLU=ON L91 AND L83  
 L93 13 SEA ABB=ON PLU=ON L87 AND L85

FILE 'HCAPLUS, MEDLINE, EMBASE, DRUGU, BIOSIS' ENTERED AT 10:07:04 ON  
 14 FEB 2007

L94 46 DUP REM L80 L17 L34 L39 L65 L93 (23. DUPLICATES REMOVED)  
 ANSWERS '1-25' FROM FILE HCAPLUS  
 ANSWERS '26-30' FROM FILE MEDLINE  
 ANSWERS '31-35' FROM FILE EMBASE  
 ANSWERS '36-43' FROM FILE DRUGU  
 ANSWERS '44-46' FROM FILE BIOSIS  
 D 1-25 IBIB ED AB HITRN HITSTR HITIND  
 D 26-46 IBIB AB IND  
 L95 6 DUP REM L79 L22 L50 L59 L92 (1 DUPLICATE REMOVED)  
 ANSWERS '1-2' FROM FILE HCAPLUS  
 ANSWERS '3-6' FROM FILE MEDLINE

10/809,975

L34 10 SEA FILE=MEDLINE ABB=ON PLU=ON L33 NOT L32

=> d que 139

L35 ( 14623) SEA FILE=EMBASE ABB=ON PLU=ON "MUSCARINIC M1 RECEPTOR"+AL  
L/CT

L36 ( 14623) SEA FILE=EMBASE ABB=ON PLU=ON "MUSCARINIC M4 RECEPTOR"+AL  
L/CT

L37 ( 11850) SEA FILE=EMBASE ABB=ON PLU=ON NEUROPATHIC PAIN? OR  
HYPERALGESIA? OR ALLODYNIA?

L38 ( 37) SEA FILE=EMBASE ABB=ON PLU=ON (L35 OR L36) AND L37

L39 10 SEA FILE=EMBASE ABB=ON PLU=ON L38 AND (M1 OR M4)

=> d que 165

L51 3717 SEA FILE=DRUGU ABB=ON PLU=ON MUSCARINIC+ALL/CT

L52 2946 SEA FILE=DRUGU ABB=ON PLU=ON NEUROPATHIC PAIN? OR  
HYPERALGESIA? OR ALLODYNIA?

L53 8 SEA FILE=DRUGU ABB=ON PLU=ON L51 AND L52

L60 1190 SEA FILE=DRUGU ABB=ON PLU=ON (M1 OR M(W)1 OR M4 OR  
M(W)4) (2A) RECEPTOR?

L61 6 SEA FILE=DRUGU ABB=ON PLU=ON L52 AND L60

L63 11 SEA FILE=DRUGU ABB=ON PLU=ON L53 OR L61

L64 6 SEA FILE=DRUGU ABB=ON PLU=ON L63 AND MUSCARINIC RECEPTOR?

L65 11 SEA FILE=DRUGU ABB=ON PLU=ON L63 OR L64

=> d que 193

L81 76 SEA FILE=BIOSIS ABB=ON PLU=ON "MUSCARINIC AGONISTS"+PFT,N  
T/CT

L82 1090 SEA FILE=BIOSIS ABB=ON PLU=ON "MUSCARINIC RECEPTOR"+PFT,N  
T/CT

L83 10733 SEA FILE=BIOSIS ABB=ON PLU=ON NEUROPATHIC PAIN? OR  
HYPERALGESIA? OR ALLODYNIA?

L84 9 SEA FILE=BIOSIS ABB=ON PLU=ON (L81 OR L82) AND L83

L85 3654 SEA FILE=BIOSIS ABB=ON PLU=ON (M1 OR M(W)1 OR M4 OR  
M(W)4) (2A) RECEPTOR?

L86 13 SEA FILE=BIOSIS ABB=ON PLU=ON L83 AND L85

L87 22 SEA FILE=BIOSIS ABB=ON PLU=ON L84 OR L86

L93 13 SEA FILE=BIOSIS ABB=ON PLU=ON L87 AND L85

=> dup rem 180 117 134 139 165 193

FILE 'HCAPLUS' ENTERED AT 10:07:04 ON 14 FEB 2007  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
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FILE 'MEDLINE' ENTERED AT 10:07:04 ON 14 FEB 2007

FILE 'EMBASE' ENTERED AT 10:07:04 ON 14 FEB 2007  
Copyright (c) 2007 Elsevier B.V. All rights reserved.

FILE 'DRUGU' ENTERED AT 10:07:04 ON 14 FEB 2007  
COPYRIGHT (C) 2007 THE THOMSON CORPORATION

FILE 'BIOSIS' ENTERED AT 10:07:04 ON 14 FEB 2007  
Copyright (c) 2007 The Thomson Corporation  
PROCESSING COMPLETED FOR L80

=&gt; d que 180

L66	1 SEA FILE=REGISTRY ABB=ON	PLU=ON	560085-17-8 /RN
L67	1 SEA FILE=REGISTRY ABB=ON	PLU=ON	372197-81-4/RN
L68	1 SEA FILE=REGISTRY ABB=ON	PLU=ON	560083-42-3/RN
L69	3 SEA FILE=HCAPLUS ABB=ON	PLU=ON	L66
L70	2 SEA FILE=HCAPLUS ABB=ON	PLU=ON	L67
L71	4 SEA FILE=HCAPLUS ABB=ON	PLU=ON	L68
L75	5 SEA FILE=HCAPLUS ABB=ON	PLU=ON	(L69 OR L70 OR L71).
L76	6225 SEA FILE=HCAPLUS ABB=ON	PLU=ON	DAVIS, R?/AU
L77	32 SEA FILE=HCAPLUS ABB=ON	PLU=ON	VANOVER, K?/AU
L78	4519 SEA FILE=HCAPLUS ABB=ON	PLU=ON	RODRIGUEZ, M?/AU
L79	2 SEA FILE=HCAPLUS ABB=ON	PLU=ON	(L76 OR L77 OR L78) AND L75
L80	3 SEA FILE=HCAPLUS ABB=ON	PLU=ON	L75 NOT L79

=&gt; d que 117

L1 (	1554) SEA FILE=HCAPLUS ABB=ON	PLU=ON	"MUSCARINIC AGONISTS"+PFT, NT/CT
L2 (	2126) SEA FILE=HCAPLUS ABB=ON	PLU=ON	"MUSCARINIC ANTAGONISTS"+P FT, NT/CT
L3 (	14839) SEA FILE=HCAPLUS ABB=ON	PLU=ON	"MUSCARINIC RECEPTORS"+PFT , NT, OLD, NEW/CT
L4 (	7547) SEA FILE=HCAPLUS ABB=ON	PLU=ON	NEUROPATHIC PAIN? OR HYPERALGESIA? OR ALLODYNIA?
L5 (	46) SEA FILE=HCAPLUS ABB=ON	PLU=ON	(L1 OR L2 OR L3) AND L4
L6 (	2838) SEA FILE=HCAPLUS ABB=ON	PLU=ON	(M1 OR M(W)1 OR M4 OR M(W)4) (A) RECEPTOR?
L7 (	12) SEA FILE=HCAPLUS ABB=ON	PLU=ON	L6 AND L5
L8 (	2651) SEA FILE=HCAPLUS ABB=ON	PLU=ON	(L1 OR L2 OR L3) AND L6
L9 (	117590) SEA FILE=HCAPLUS ABB=ON	PLU=ON	M1 OR M(W)1 OR M4 OR M(W)4
L10 (	46) SEA FILE=HCAPLUS ABB=ON	PLU=ON	L4 AND L9
L11 (	12) SEA FILE=HCAPLUS ABB=ON	PLU=ON	L8 AND L4
L12 (	33) SEA FILE=HCAPLUS ABB=ON	PLU=ON	L10 AND THU/RL
L13 (	17) SEA FILE=HCAPLUS ABB=ON	PLU=ON	L12 AND (M1 OR M4)
L14 (	21) SEA FILE=HCAPLUS ABB=ON	PLU=ON	L7 OR L11 OR L13
L15 (	63) SEA FILE=HCAPLUS ABB=ON	PLU=ON	L4 AND MUSCARINIC?
L16 (	16) SEA FILE=HCAPLUS ABB=ON	PLU=ON	L15 AND (M1 OR M4)
L17	22 SEA FILE=HCAPLUS ABB=ON	PLU=ON	L14 OR L16

=&gt; d que 134

L23 (	13568) SEA FILE=MEDLINE ABB=ON	PLU=ON	"MUSCARINIC AGONISTS"+PFT, NT/CT
L24 (	708) SEA FILE=MEDLINE ABB=ON	PLU=ON	("MUSCARINIC RECEPTORS M1"/CT OR "MUSCARINIC RECEPTORS M4"/CT)
L25 (	9148) SEA FILE=MEDLINE ABB=ON	PLU=ON	NEUROPATHIC PAIN? OR HYPERALGESIA? OR ALLODYNIA?
L26 (	10) SEA FILE=MEDLINE ABB=ON	PLU=ON	L25 AND ((L23 OR L24))
L27 (	1615) SEA FILE=MEDLINE ABB=ON	PLU=ON	(M1 OR M(W)1 OR M4 OR M(W)4) (A) RECEPTOR?
L28 (	3) SEA FILE=MEDLINE ABB=ON	PLU=ON	L26 AND L27
L29 (	4553) SEA FILE=MEDLINE ABB=ON	PLU=ON	DAVIS, R?/AU
L30 (	27) SEA FILE=MEDLINE ABB=ON	PLU=ON	VANOVER, K?/AU
L31 (	4987) SEA FILE=MEDLINE ABB=ON	PLU=ON	RODRIGUEZ, M?/AU
L32 (	5) SEA FILE=MEDLINE ABB=ON	PLU=ON	(L29 OR L30 OR L31) AND L27
L33 (	10) SEA FILE=MEDLINE ABB=ON	PLU=ON	L26 OR L28

PROCESSING COMPLETED FOR L17  
 PROCESSING COMPLETED FOR L34  
 PROCESSING COMPLETED FOR L39  
 PROCESSING COMPLETED FOR L65  
 PROCESSING COMPLETED FOR L93

L94        46 DUP REM L80 L17 L34 L39 L65 L93 (23 DUPLICATES REMOVED)  
 ANSWERS '1-25' FROM FILE HCPLUS  
 ANSWERS '26-30' FROM FILE MEDLINE  
 ANSWERS '31-35' FROM FILE EMBASE  
 ANSWERS '36-43' FROM FILE DRUGU  
 ANSWERS '44-46' FROM FILE BIOSIS

=> d 1-25 ibib ed ab hitrn hitstr hitind

L94 ANSWER 1 OF 46 HCPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 2

ACCESSION NUMBER: 2004:1010285 HCPLUS Full-text

DOCUMENT NUMBER: 142:16720

TITLE: Intrathecal clonidine inhibits mechanical  
 allodynia via activation of the spinal  
 muscarinic M1 receptor

AUTHOR(S): in streptozotocin-induced diabetic mice

Koga, Kohei; Honda, Kenji; Ando, Suguru; Harasawa,  
 Ichiro; Kamiya, Hiro-O.; Takano, Yukio

CORPORATE SOURCE: Department of Physiology and Pharmacology, Faculty  
 of Pharmaceutical Sciences, Fukuoka University,  
 Fukuoka, 814-0180, Japan

SOURCE: European Journal of Pharmacology (2004), 505(1-3),  
 75-82

CODEN: EJPHAZ; ISSN: 0014-2999

PUBLISHER: Elsevier B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

ED    Entered STN: 24 Nov 2004

AB    We examined the involvement of the spinal muscarinic receptors in the clonidine-induced antiallodynic effects. Mech. sensitivity was assessed by stimulating the hind paw with von Frey filaments. In streptozotocin-treated (200 mg/kg, i.v.) diabetic mice, hypersensitivity to mech. stimulation appeared 3 days after streptozotocin administration, and persisted for 11 days. This mech. hypersensitivity (allodynia) was inhibited by the intrathecal (i.t.) injection of clonidine. The muscarinic receptor antagonist atropine (i.t.) and  $\alpha$ 2-adrenoreceptor antagonist yohimbine (i.t. or s.c. injection) abolished the antiallodynic effect of clonidine. The effect was mimicked by the muscarinic M1 receptor antagonist pirenzepine, but not by the muscarinic M2 receptor antagonist methoctramine or the muscarinic M3 receptor antagonist 4-DAMP (4-diphenyl-acetoxy-N-methylpiperidine methiodide). In addition, the mech. hypersensitivity in diabetic mice was reduced by the selective muscarinic M1 receptor agonist McN-A-343 (4-(m-chlorophenyl-carbamoyloxy)-2- butynyltrimethylammonium chloride) (i.t.). These results suggest that spinal muscarinic M1 receptors participate in the antiallodynic effect of clonidine in diabetic mice.

CC 1-11 (Pharmacology)

ST spinal muscarinic M1 receptor clonidine  
 allodynia diabetes

IT Muscarinic receptors

(M1; intrathecal clonidine inhibits mech.  
 allodynia via activation of the spinal muscarinic  
 M1 receptor in streptozotocin-induced diabetic  
 mice)

IT Pain

Skin, disease